Please type a plus sign (+) inside this box — +

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.		8054-50 (LW9007US/HJ)		
First Inventor		Jae-Hyun KIM		
Title	ARRAY SUBSTRATE AND REFLECTIVE			

Frank Chau

U.S.A

Country

Signature

Name (Print/Type)

(Only for new nonprovision	nal applications under 37 CFR 1.53(l)) E	xpress Mai	I Label No.	EV 413370513	US
	TION ELEMENTS cerning utility patent application conto	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231				
1. Fee Transmittal F (Submit an original and a 2. Applicant claims s See 37 CFR 1.27. 3. Specification (preferred arrangemen - Descriptive title - Cross Referenc - Statement Regi - Reference to se or a computer p - Background of - Brief Summary	orm (e.g., PTO/SB/17) duplicate for fee processing) mall entity status. [Total Pages 45] It set forth below) of the invention e to Related Applications arding Fed sponsored R & D equence listing, a table, program listing appendix the Invention of the Invention of the Drawings (if filed) ption	enis.	8. Nucleotid (if applica a	D-ROM or CD- computer Prograte and/or Amin able, all necess Computer Rea fication Sequel CD-RO paper Statements ve	dable Form (CRF) nce Listing on: M or CD-R (2 copie rifying identity of able G APPLICATIO pers (cover sheet &) Statement	e table or submission es); or sove copies ON PARTS
 4. Drawing(s) (35 U 5. Oath or Declaration a. Newly exect Copy from a (for continua) i. DELET Signed sta 	11. English Translation Document (if applicable) 12. Information Disclosure Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
named in to 1.63(d)(2) 6. Application Data			b)(2)(B)(i). Ap or its equivaler	Certification under 3 plicant must attach nt. Lit Card Payment	form PTO/SB/35	
18. If a CONTINUING APPLI or in an Application Data She Continuation Prior application information: For CONTINUATION OR DIVISI Box 5b, is considered a part of	(CIP) - e of the p ontinuation	of prior of Group Group rior application on or divisiona	nformation bel application No.: Art Unit: n, from which a il application ar	n oath or declaration	nary amendment,	
The incorporation can only be	relied upon when a portion has been in 19. CORRESP		•	•	application parts.	·- <u>-</u>
Customer Number or Bar Co				or _	Correspondence a	ddress below
Name						
Address	F. CHAU & ASSOCIATES, LI 1900 Hempstead Turnpike, Suit					
City	East Meadow		tate New	York	Zip Code	11554
Country	U.S.A	Telent	one (516)	357-0091	Fax	(516) 357-0092

Registration No. (Attorney/Agent) 34,136

3/12/04

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE	TR	AN	SM	IT	TAL
•	for	FY	200	14	

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

(\$)	986.	00
------	------	----

Complete if Known				
Application Number		PT(
Filing Date	March 12, 2004	S.		
First Named Inventor	Jae-Hyun KIM	D S		
Examiner Name		-		
Art Unit		17		
Attorney Docket No.	8054-50 (LW9007US/HJ)	7		

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	Large En	tity	Small	Entity		
Denosit				Fee (\$)	Fee Description	Eas Daid
Account Number 50-0679		130	2051		Surcharge - late filing fee or oath	Fee Paid
Deposit F CHALLS ACCOCIATES LLC	1052	50	2052		Surcharge - late provisional filing fee or	
Name F.CHAU & ASSOCIATES, LLC	4052 4	ا ۱	1050	420	cover sheet	
The Director is authorized to: (check all that apply)	1053 1 1812 2.	130 520	1053 1812		Non-English specification For filing a request for ex parte reexamination	
Charge fee(s) indicated below	•	920*	1804	-,	Requesting publication of SIR prior to	
Charge any additional fee(s) or any underpayment of fee(s)	1004	320	1004	320	Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,	840*	1805	1,840*	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Fee Description Fee Paid Code (\$)	1254 1,	480	2254	740	Extension for reply within fourth month	
1001 770 2001 285 Hillity Sline for	1255 2,	010	2255	1,005	Extension for reply within fifth month	\longrightarrow
1002 340 2002 170 Design filing fee 770.00	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1,	510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55	Petition to revive - unavoidable	
	1453 1,	330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,	330	2501	665	Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 25 -20** = 5 x 18 = 90	1502	480	2502	240	Design issue fee	
Independent	1503	640	2503	320	Plant issue fee	
1	1460	130	1460	130	Petitions to the Commissioner	
	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	(37 CFR 1.129(a)) For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims	,0		_0.0		examined (37 CFR 1.129(b))	
over original patent		770	2801		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 176.00	Other fe	e (sp	ecify) _			
**or number previously paid, if greater; For Reissues, see above	*Reduce	ed by	Basic F	Filing F	ee Paid SUBTOTAL (3) (\$) 40.00)

(Complete (if applicable)) SUBMITTED BY Registration No. Name (Print/Type) Frank Chau 34,136 Telephone 516-357-0091 (Attorney/Agent) Signature

> WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PATENT

Atty. Docket No. 8054-50 (LW9007US/HJ)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s):

Jae-Hyun KIM, Yong-Kyu JANG, Sang-Woo KIM,

Jae-Young LEE, Sung-Eun CHA

For:

ARRAY SUBSTRATE AND REFLECTIVE-TRANSMISSIVE

TYPE LIQUID CRYSTAL DISPLAY APPARATUS HAVING

THE SAME

This application is a:

- [X] New Application
- [] Continuation
- [] Continuation-In-Part (CIP)
- [] Divisional

of co-pending U.S. application Serial No. filed on

CERTIFICATION UNDER 37 C.F.R. § 1.10

Frank Chau
(Type or wrint name of person mailing paper)
(Signature of person mailing paper)

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date <u>March 12, 2004</u> in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EV 413370513US</u> addressed to: Commissioner for Patents, Alexandria, VA 22313.

Enclosed are:		
[X] <u>35</u> page(s)	of specification	
[X]1 page(s)	of Abstract	
[X]9 page(s)	of claims	
[X] <u>26</u> sheets	of drawings [X] forma	al [] informal
[X]2 page(s)	of Declaration and Po	ower of Attorney
[X] An Assignment of t	the invention to:	LTD.
- -	ation claims the benef J.S. Provisional Appli	
APPLICATION	NO(S):	FILING DATE
		· .
[X] Priority und claimed from	der Title 35 United Stan:	ates Code, § 119 is
Country	Appln. No.	Filed
Korea	2003-16477	March 17, 2003
[X] Certifie	ed copy of which:	
[X] is	enclosed	
[] wi:	ll follow.	

Additional papers enclosed:

[] <u>Preliminary Amendment</u>

The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment.

- [] Information Disclosure Statement
- [] Form PTO-1449
- [] Other

Fee Calculation (37 C.F.R. §1.16)

	Number	Number		E	asic Fee
For	Filed	Extra	Rate		\$ 770.00
Total					
<u>Claims*</u>	25 -20 =	= 5	x \$ 18.00		\$ 90.00
Independent					
Claims	4 -3 :	= 1	x \$ 86.00		\$ 86.00
Multiple	[] yes	Add'l. Fee	\$290.00		\$
Dependent					
Claims	[X] no	Add'l. Fee	None	=	\$

TOTAL \$ 946.00

- [] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$.00.
- [X] A Credit Card Form Payment Form PTO-2038 in the amount of \$40.00 is enclosed for recording the attached Assignment.
- [X] A Credit Card Form Payment Form PTO-2038 in the amount of \$946.00 to cover the filing fee is attached.
- [] Charge fee to Deposit Account No. 50-0679. Order No. _____ TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

^{*} Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Relate Back - 35 U.S.C. § 120

[]	Amend	the	specification	by	inserting	after	the	Title
	the se	enter	nce:					

This is a [X] continuation	n [] continuation-in-part
[] divisional of copending	application Serial No.
filed on	, the disclosure of
which in its entirety is in	corporated-by-reference
herein	

[] The prior application is assigned of record to :

Date: 3/12/04

signature of attorney Frank Chau Reg. No. 34,136

F. CHAU & ASSOCIATES, LLC 1900 Hempstead Turnpike, Suite 501 East Meadow, New York 11554 Tel. No. (516) 357-0091 Fax. (516) 357-0092 FC/pg